

Subject: INFO-HAMS Digest V89 #939
To: INFO-HAMS@WSMR-SIMTEL20.ARMY.MIL

INFO-HAMS Digest Mon, 27 Nov 89 Volume 89 : Issue 939

Today's Topics:

 Discone de: RS revisited
 Multiband mobile antennas (2 msgs)
 Restrictions on RECEIVING signals in England....
 RS Discone? Good or Bad?
 The "Right to Receive" (2 msgs)
 VLF time and frequency radio stations list
 WANTED : References on 'Direct Digital Synthesis'

Date: Mon, 27 Nov 89 17:08 CST
From: PAT.DAVIS@mail.admin.wisc.edu
Subject: Discone de: RS revisited

Comment: Processed by UWGATE

to: info-hams@wsmr-simtel20.army.mil

> ' there's no place to put a whip on a RS discone'

My RS discone came with a plastic cap on top which covered a 3/8" (or so) bolt which protruded from the top. I took a 1/4 wave UHF whip and screwed it right on there..

As to the elements, yes they are light duty. If you can get it in the air without damaging it you're ok.. I know someone who broke a few on the way up, his name is CHRIS :-). I think he got some parts from RADio Shack and tried again.. If you're impulsive but careful, go to RAD Shack. If you are prudent and patient, possibly a chronic antenna bender, go else where. ICOM sells one too I think.. As I recall, it has a 6 Meter whip on top and costs maybe 30% more than the RS..

Date: 28 Nov 89 01:39:16 GMT
From: usc!cs.utexas.edu!wuarchive!uwm.edu!ux1.cso.uiuc.edu!ux1.cso.uiuc.edu!phil@apple.com
Subject: Multiband mobile antennas

> I have recently purchased a used Yaesu FT-727R handheld, which operates
> on both 2m and 70cm. I am quite happy with it, but I have a question
> about how best to 'antenna' it. A little quick math shows me that a

> 1/4 wave 2m antenna is approximately 20 inches long. This also happens
> to be 3/4 wavelength on 450MHz (more or less). What are the impedance
> and resonant characteristics of a 3/4 wave antenna? What's the rule:
> Even 1/4 wavelengths, odd 1/4 wavelengths? Both? Are there any antennas
> out there (for construction or, heaven forbid, purchase 8-)) that will give
> me reasonable SWR on both bands? (I hope to use this mobile, so a RS
> discone would be a little conspicuous.) Any ideas/pointers/vectors/
> articles/etc will be greatly appreciated.

Larsen makes a dual band mobile antenna for several of the mounts they support. I just ordered the model NMO-2/70 ("motorola compatible mount") and an NMO-MM magmount base. I can let you know how well it works.

Alternatives are to use a duplexer and separate VHF and UHF antennae. This gives you some better broadbandedness on UHF, as 3/4 wave and collinears narrow the bandwidth. If you plan to use 430 Mhz as well, you might need the 1/4 wave to get reasonable SWR on all 20 Mhz at once.

--Phil Howard, KA9WGN--
<phil@ux1.cso.uiuc.edu>

Date: 27 Nov 89 21:39:38 GMT
From: att!cbnewsd!jmseb@ucbvax.Berkeley.EDU (john.m.sebeson)
Subject: Multiband mobile antennas

In article <639@tsdiag.ccur.com>, davet@tsdiag.ccur.com (Dave Tiller N2KAU) writes:

>
>
> I have recently purchased a used Yaesu FT-727R handheld, which operates
> on both 2m and 70cm. I am quite happy with it, but I have a question
[stuff deleted]
> Are there any antennas
> out there (for construction or, heaven forbid, purchase 8-)) that will give
> me reasonable SWR on both bands? (I hope to use this mobile, so a RS
> discone would be a little conspicuous.) Any ideas/pointers/vectors/
> articles/etc will be greatly appreciated.

>
> Thanks in advance from:

>
>
> --
> David E. Tiller N2KAU | Concurrent Computer Corp.

David (and others out there who might be interested):

For mobile operation with my 2m/70cm rig, I purchased the Icom dual-band antenna (the AH-32). I have been very pleased with its performance. It is relatively small, screws into a SO-239 connector, and has high quality materials and construction. The price was about \$35 (I think). For base station operation, I purchased the Austin Suburban Tribander (144/220/440) from Austin Custom Antennas in NH. This latter antenna was reviewed in the April 1989 issue of 73. Price, about \$69. Also excellent quality and performance. I recommend both. BTW, I think Austin makes several multiband mobile antennas as well. Hope this was of some help,

~~~~~  
John Sebeson  
KB8RY  
Naperville, IL  
  
~~~~~  

Date: 27 Nov 89 20:16:52 GMT
From: att!cbnewsm!mhgki!rma@ucbvax.Berkeley.EDU (atkins, robert m)
Subject: Restrictions on RECEIVING signals in England....

In article <6563@lynx.UUCP>, neal@lynx.uucp (Neal Woodall) writes:
> In article <24.Nov.89.14:59:49.GMT.#7127@UK.AC.NWL.IA> Matt Brunton writes:
>
> >.....Over here in the UK the law lets you
> >listen to licensed radio amateurs, licensed CB operators and
> >broadcasters AND THAT IS IT.
>
> Do you thin this is GOOD? If you do, I feel sorry for you.....
>
> Just another reason for me to think that England is a police state. This may
> not be ther proper forum, but then again maybe it is....I will let the readers
> decide.....
>
> England seems to have many laws that classify it as a police state: No right
> of free speech, very restrictive gun laws, an oppressive "Big Brother"-type
> government, high taxes.....and now I find out this: you cannot even listen
> to radio waves passing through your own body!

Neal,

I think you are going a bit far to call England a police state. The UK government (Thatcher in particular) has, and always has had, the attitude that it knows best when it comes to matters of what they regard as "security". Hence there is no freedom of information act and they do tend to try to repress

politically awkward stories. (I'm sure the US government would like to do the same if they could!). To say England has no right of free speech is rubbish. Go to speaker's corner (Hyde park) in London any day and you will see for yourself. In addition

take a look at real English TV if you ever get the chance. It is far, far more uncensored than american TV. As for guns, well, I would guess that more people are shot in New York on an average DAY than in an average YEAR in England. You can certainly own a hunting weapon (shotgun) in the UK, they just make sure you are a responsible citizen first - what's the problem with that?

To top it all, they actually have a no code licence - free access to the amateur bands with only a tech exam. There's liberty for you. I could say much more, but it would be inappropriate for this newsgroup. This posting probably is too, but I couldn't let your statement go unchallenged.

Date: 27 Nov 89 17:13:52 GMT
From: ncrlnk!ncrwic!encad!entec!kthompso@uunet.uu.net (Ken Thompson)
Subject: RS Discone? Good or Bad?

It is a good discone, but too fragile I think for portable use.

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Ken Thompson      NOITL
NCR Corp.  3718 N. Rock Road
Wichita, Ks. 67226  (316)636-8783
Ken.Thompson@wichita.ncr.com
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Date: Mon, 27 Nov 89 19:03:16 EST
From: mgb@apg-tecnet.apg.army.mil
Subject: The "Right to Receive"

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*att!cbnewsm!mhgki!rma@ucbvax.Berkeley.EDU (atkins, robert m) writes:  
<Just about EVERYTHING left out>
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*The "crime" is invasion of privacy".

*Let me say that I am all for freedom of speech and action, where it does
*not interfere with my right to privacy.

*You can say whatever you want to - I
*don't have to listen. But when you listen in to my phone calls, where is my
*right to privacy?

*Could you, or "the authorities" listen in to my cellular phone calls and use

ensure it. You go inside your home, pull down the shades, and do whatever you wish.

> (By the way, whatever happened to amateur radio on this newsgroup??)

The feeling that most of us have is that if you transmit messages IN THE CLEAR on a radio frequency which is technically easy to receive, then you have NOT taken reasonable precautions to ensure privacy. Cellular phone transmissions are IN THE CLEAR, so and are FM just like your 2 meter HT is. You can even receive cellular transmission on an 82 channel TV set.

--Phil Howard, KA9WGN--
<phil@ux1.cso.uiuc.edu>

Date: 27 Nov 89 21:07:09 GMT
From: philmtl!philabs!briar.philips.com!rfc@uunet.uu.net (Robert Casey;6282;3.57;\$0201)
Subject: VLF time and frequency radio stations list

copied from packet:
From: ka2raf@nn2z.ampr.org (Chris Crosby)
To: swls@allbbs
Subject: VLF World Time Stations by Frequency

WORLD STANDARD TIME and FREQUENCY STATIONS (sorted by freq)

Station	Power	Std Freq	Accr'cy	DUT1			
Call Sign	Approximate Location	Latitude Longitude	Carrier Power (kw)	Carrier (KHz)	Mod (Hz)	Parts 9 in 10	
GBR(1) (31)	Rugy, UK	52 22'N 01 11'W	750 60(2)	15.95 16.00	1(9) (9)	+/-0.02	CCIR code by dble pulse
NDT(1) (32)	Yosami,Jap	34 58'N 137 01'E	40(2)	17.4	nil	+/-0.1	
NAA(1) (22)(32)	Cutler,ME USA	44 38'N 67 17'W	2000 1000(2)	17.8	nil	+/-0.1	
NLK(1) (32)	Jim Creek, Wash.,USA	48 12'N 121 55'W	1200 130(2)	18.6	nil	+/-0.1	
UQC3	Khabarovsk,	48 30'N	300	26.6	1,10,		

	USSR	134 51'E		25.1	40		
			25.5				
			23.0	(42)			
			20.5				
UTR3	Gorky, USSR	56 11'N 43 58'E	300	25.0 25.1	1,10, 40		
			25.5				
			23.0	(42)			
			20.5				
NSS(1) (32)	Annapolis, MD,USA	38 59'N 76 27'W	1000 400(2)	21.4	nil	+/-0.1	
NWC(1) (22)(32)	North West Cape,Astrla	21 49'S 114 10'E	1000(2)	22.3	nil	+/-0.1	
NPM(1) (22)(32)	Lualualei HI,USA	21 25'N 158 09'W	1000 630(2)	23.4	nil	+/-0.1	
JJF-2(1) JG2AS	Sanwa, Sashima, Ibaraki,Jap	36 11'N 139 51'E	10	40	1 (21)	+/-0.1	
OMA	Podebrady, CZECH.,SR	50 08'N 15 08'E	5	50	1 (90	+/-10	No DUT1 trans
RTZ(1)	Irkutsk USSR	52 18'N 104 18'E	10	50	1; 10	+/-0.1	CCIR Code by dbble pls(41)
MSF	Rugby UK	52 22'N 01 11'W	25(2)	60	1 (12)	+/-0.02	CCIR Code dbble pulse
WWVB(1)	Ft Collins CO,USA	40 40'N 105 03'W	13(2)	60	1 (3)	+/-0.1	No CCIR code
RBU(1)	Moskva, USSR	55 19'N 38 41'E	10	66 2/3	1; 10	+/-0.1	CCIR Code by pulse(41)
HBG(39)	Prangins Switz	46 24'N 06 15'E	20	75	1 (28)	+/-0.2	No DUT1 trans
DCF77(1)	Mainflingen FR Germany	50 01'N 09 00'E	20	77.5	1	+/- 0.005	No DUT1 trans
?	Donebach, FR Germany	49 34'N 09 11'E	250	151	nil	+/-0.5	

?	Allouis, France	47 10'N 02 12'E	1000 to 2000	163 84(33)	nil	+/-0.1	
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?	Droitwich, UK	52 16'N 02 09'W	400	200	nil	+/-0.2	
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RW-166	Irkutsk, USSR	52 18'N 104 18'E	40	200		+/-0.1	
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1858z, 744 msgs, #9941 last @KD6TH-4 MailBox>

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73 de WA2ISE

Date: 27 Nov 89 22:05:28 GMT

From: bridge2!mips!prls!gert@apple.com (Gert Slavenburg)

Subject: WANTED : References on 'Direct Digital Synthesis'

In a brochure by Icom, I noticed that they incorporate a synthesis method 'Direct Digital Synthesis' in their HF transceivers. I sort of have an idea of what they do, but would like references to articles or books to study the topic further.

Thank you,

Gert Slavenburg

(UUCP : ...!pyramid!prls!gert

Internet : pyramid!prls!gert@uunet.uu.net)

End of INFO-HAMS Digest V89 Issue #939
